

THE ASTROPHYSICAL JOURNAL

Founded in 1895 by George E. Hale and James E. Keeler

HELMUT A. ABT
Managing Editor
Kitt Peak National Observatory

A. DALGARNO
Letters Editor
Center for Astrophysics

EUGENE H. AVRETT
Deputy Letters Editor
Center for Astrophysics

F. DAVID A. HARTWICK
Associate Letters Editor
University of Victoria

MICHAEL JURA
Associate Letters Editor
University of California, Los Angeles

EDWIN E. SALPETER
Associate Letters Editor
Cornell University

AAS PUBLICATIONS BOARD

HUGH M. VAN HORN (1993–1996), *Chairperson*
University of Rochester

JAMES W. LIEBERT (1991–1994)
University of Arizona

KRISTEN SELLGREN (1991–1994)
Ohio State University

H. J. G. L. M. LAMERS (1992–1995)
SRON Laboratory for Space Research,
The Netherlands

SUSAN G. KLEINMANN (1993–1995)
University of Massachusetts

JAMES J. CONDON (1994–1997)
NRAO, Charlottesville, Virginia

JOHN A. NOUSEK (1994–1997)
Pennsylvania State University

Production Manager: TULIE O'CONNOR

Chief Manuscript Editor: GERALDINE BRADY

Manuscript Editors: WALTER G. GLASCOFF III, BETH GARRISON, KAREN LESLIE BOYD, THAD A. DORIA, DAVID E. ANDERSON, AND IVAN BRUNETTI

Production Staff: KIM LANGFORD, GRACE S. WHITE, CINDY GARRETT, AND RICK SCHOEN

Cambridge Editorial Office: MARY BURGESS, KATHRYN DUFLO, AND CHRISTOPHER VETTEL

VOLUME 420, PART 2
1994 JANUARY 1 AND JANUARY 10

PUBLISHED BY THE UNIVERSITY OF CHICAGO PRESS FOR
THE AMERICAN ASTRONOMICAL SOCIETY

© 1994 BY THE AMERICAN ASTRONOMICAL SOCIETY. ALL RIGHTS RESERVED.
PUBLISHED THREE TIMES A MONTH

COMPOSED BY SANTYPE INTERNATIONAL LIMITED, SALISBURY, ENGLAND
PRINTED BY CAPITAL CITY PRESS, INC.
MONTPELIER, VERMONT, U.S.A.

THE ASTROPHYSICAL JOURNAL LETTERS

CONTENTS OF VOLUME 420, PART 2

1994 JANUARY 1, Number 1

	Page	Fiche
DEEP IMAGING OF THE FIELD OF THE $z = 4.9$ QUASAR PC 1247+3406, AND FAINT GALAXY COUNTS IN THE K BAND WITH THE KECK TELESCOPE <i>B. T. Soifer, K. Matthews, S. Djorgovski, J. Larkin, J. R. Graham, W. Harrison, G. Jernigan, S. Lin, J. Nelson, G. Neugebauer, G. Smith, J. D. Smith, & C. Ziolkowski</i>	L1	7-A7
INFRARED OBSERVATIONS OF THE $z = 3.8$ RADIO GALAXY 4C 41.17, WITH THE W. M. KECK TELESCOPE <i>James R. Graham, K. Matthews, B. T. Soifer, J. E. Nelson, W. Harrison, J. G. Jernigan, S. Lin, G. Neugebauer, G. Smith, & C. Ziolkowski</i>	L5	7-B1
NEAR-INFRARED IMAGES OF MG 1131+0456 WITH THE W. M. KECK TELESCOPE: ANOTHER DUSTY GRAVITATIONAL LENS? <i>J. E. Larkin, K. Matthews, C. R. Lawrence, J. R. Graham, W. Harrison, G. Jernigan, S. Lin, J. Nelson, G. Neugebauer, G. Smith, B. T. Soifer, & C. Ziolkowski</i>	L9	7-B10
NEAR-INFRARED IMAGING OF FSC 10214+4724 WITH THE W. M. KECK TELESCOPE <i>K. Matthews, B. T. Soifer, J. Nelson, H. Boesgaard, J. R. Graham, W. Harrison, W. Irace, G. Jernigan, J. E. Larkin, H. Lewis, S. Lin, G. Neugebauer, M. Sirota, G. Smith, & C. Ziolkowski</i>	L13	7-C5
EXTENDED AND COMPACT X-RAY EMISSION IN POWERFUL RADIO GALAXIES <i>D. M. Worrall, C. R. Lawrence, T. J. Pearson, & A. C. S. Readhead</i>	L17	7-C11
DETECTION OF CO $J = 2 \rightarrow 1$ EMISSION FROM THE POLAR RINGS OF NGC 2685 AND NGC 4650A <i>Dan M. Watson, Matthew T. Guptill, & Leah M. Buchholz</i>	L21	7-D1
DETECTION OF X-RAYS FROM SN 1987A WITH ROSAT <i>Paul Gorenstein, John P. Hughes, & Wallace H. Tucker</i>	L25	7-D8
INTERSTELLAR DETECTION OF THE INTERSYSTEM LINE Si II] $\lambda 2335$ TOWARD ζ OPHIUCHI <i>Jason A. Cardelli, Ulysses J. Sofia, Blair D. Savage, Francis P. Keenan, & Philip L. Dufton</i>	L29	7-D13
A FAR-ULTRAVIOLET FLARE ON A PLEIADES G DWARF <i>T. R. Ayres, J. R. Stauffer, Theodore Simon, R. A. Stern, S. K. Antiochos, G. S. Basri, J. A. Bookbinder, A. Brown, G. A. Doschek, J. L. Linsky, L. W. Ramsey, & F. M. Walter</i>	L33	7-E4
A FLARE CAUSED BY INTERACTING CORONAL LOOPS <i>Yoichiro Hanaoka</i>	L37	7-E9
THE MAGNETIC FIELD OF SOLAR PROMINENCES <i>S. K. Antiochos, R. B. Dahlburg, & J. A. Klimchuk</i>	L41	7-F1
HOPKINS ULTRAVIOLET TELESCOPE DETERMINATION OF THE IO TORUS ELECTRON TEMPERATURE <i>D. T. Hall, C. J. Bednar, S. T. Durrance, P. D. Feldman, M. A. McGrath, H. W. Moos, & D. F. Strobel</i>	L45	7-F7
INSTRUCTIONS TO AUTHORS OF <i>LETTERS</i> , RECENT <i>LETTERS</i> ABSTRACTS, AUTHOR AND SUBJECT INDEXES		Inside Back Cover

1994 JANUARY 10, Number 2

	Page	Fiche
A NEW DARK MATTER CANDIDATE: KALUZA-KLEIN SOLITONS <i>Paul S. Wesson</i>	L49	15-B4

	<i>Page</i>	<i>Fiche</i>
NEUTRINO BALLS AND GAMMA-RAY BURSTS <i>B. Holdom & R. A. Malaney</i>	L53	15-B7
X-RAY BUMPS, IRON K α LINES, AND X-RAY SUPPRESSION BY OBSCURING TORI IN SEYFERT GALAXIES <i>Julian H. Krolik, Piero Madau, & Piotr T. Życki</i>	L57	15-B13
TWO VERY LUMINOUS VARIABLE X-RAY SOURCES IN M82 <i>A. Collura, Fabio Reale, Eric Schulman, & Joel N. Bregman</i>	L63	15-C6
SEPARATRIX CROSSING AND THE ENIGMA OF NGC 4550 <i>N. W. Evans & J. L. Collett</i>	L67	15-C13
INTERSTELLAR AND INTERGALACTIC MAGNESIUM AND SODIUM ABSORPTION TOWARD SN 1993J <i>David V. Bowen, Katherine C. Roth, J. Chris Blades, & David M. Meyer</i>	L71	15-D5
ON THE ENERGETICS AND NUMBER OF GAMMA-RAY PULSARS <i>Charles D. Dermer & Steven J. Sturmer</i>	L75	15-D11
ON THE SPECTRA AND PULSE PROFILES OF GAMMA-RAY PULSARS <i>Steven J. Sturmer & Charles D. Dermer</i>	L79	15-E3
A SEARCH FOR CIRCUMSTELLAR MATERIAL AROUND PULSARS <i>J. A. Phillips & C. J. Chandler</i>	L83	15-E9
DISCOVERY OF A DEEPLY EMBEDDED COMPANION TO LkH α 234 <i>David A. Weintraub, Joel H. Kastner, & Ashwin Mahesh</i>	L87	15-F1
A RADIO CANDIDATE FOR THE EXCITING SOURCE OF THE L1287 BIPOLAR OUTFLOW <i>Guillem Anglada, Luis F. Rodriguez, José M. Girart, Robert Estalella, & José M. Torrelles</i>	L91	15-F7
DETECTION OF A NEW MOLECULAR ION HC $_3$ NH $^+$ IN TMC-1 <i>Kentarou Kawaguchi, Tasuko Kasai, Shin-ichi Ishikawa, Masatoshi Ohishi, Norio Kaifu, & Takayoshi Amano</i>	L95	15-F12
INSTRUCTIONS TO AUTHORS OF <i>LETTERS</i> , RECENT <i>LETTERS</i> ABSTRACTS, AUTHOR AND SUBJECT INDEXES		<i>Inside Back Cover</i>

